

Damper actuator for adjusting air dampers in ventilation and air-conditioning systems for building services installations

- For air dampers up to approx. 2 m²
- Torque 10 Nm
- Nominal voltage AC/DC 24 V
- Control: Open-close or 3-point



Technical data

| | | |
|----------------------------|---------------------------|---|
| Electrical data | Nominal voltage | AC 24 V, 50/60 Hz / DC 24 V |
| | Nominal voltage range | AC 19.2 ... 28.8 V / DC 21.6 ... 28.8 V |
| | Power consumption | In operation 1.5 W @ nominal torque |
| | | At rest 0.2 W |
| | For wire sizing | 3.5 VA |
| | Connection | Cable 1 m, 3 x 0.75 mm ² |
| Functional data | Torque (nominal torque) | Min. 10 Nm @ nominal voltage |
| | Direction of rotation | Reversible with switch 0 ↺ resp. 1 ↻ |
| | Manual override | Gearing latch disengaged with pushbutton, can be locked |
| | Angle of rotation | Max. 95° ↺, can be limited at both ends with adjustable mechanical end stops |
| | Running time | 150 s / 90° ↺ |
| | Sound power level | Max. 35 dB (A) |
| | Position indication | Mechanical, pluggable |
| Safety | Protection class | III Safety extra-low voltage / UL Class 2 Supply |
| | Degree of protection | IP54 in any mounting position NEMA 2, UL Enclosure Type 2 |
| EMC | | CE according to 2004/108/EC |
| Certification | | cULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 |
| | Mode of operation | Type 1 |
| | Rated impulse voltage | 0.8 kV |
| | Control pollution degree | 3 |
| | Ambient temperature range | -30 ... +50 °C |
| | Non-operating temperature | -40 ... +80 °C |
| | Ambient humidity range | 95% r.H., non-condensating |
| | Maintenance | Maintenance-free |
| Dimensions / Weight | Dimensions | See «Dimensions» on page 2 |
| | Weight | Approx. 750 g |

Safety notes



- The actuator is not allowed to be used outside the specified field of application, especially in aircraft or any other form of air transport.
- Assembly must be carried out by trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- The device may only be opened at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.
- The cable must not be removed from the device.
- When calculating the required torque, the specifications supplied by the damper manufacturers (cross section, design, installation site), and the air flow conditions must be observed.
- The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Product features

- Simple direct mounting** Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.
- Manual override** Manual override with push-button possible (the gear is disengaged for as long as the button is pressed or remains locked).
- Adjustable angle of rotation** Adjustable angle of rotation with mechanical end stops.
- High functional reliability** The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

Accessories

| | Description | Data sheet |
|-------------------------------|---|----------------|
| Electrical accessories | Auxiliary switch S..A.. | T2 - S..A.. |
| | Feedback potentiometer P..A.. | T2 - P..A.. |
| Mechanical accessories | Various accessories (clamps, shaft extensions etc.) | T2 - Z-NM..A.. |

Electrical installation

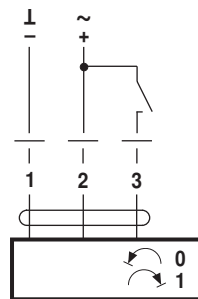
Wiring diagrams

Notes

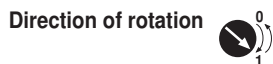
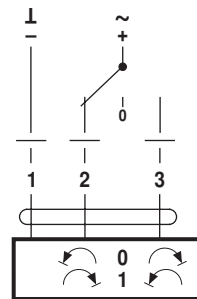
- Connection via safety isolating transformer.
- Other actuators can be connected in parallel.

Please note the performance data.

Open-close control



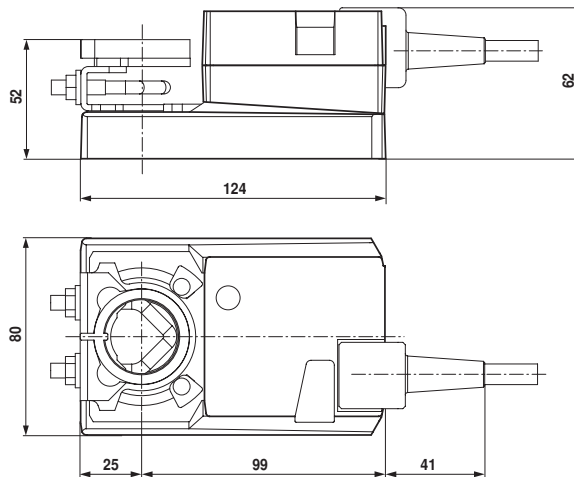
3-point control



Cable colours:
 1 = black
 2 = red
 3 = white

Dimensions [mm]

Dimensional drawings



| Damper spindle | Length | ⊙ | ■ | ◇ |
|----------------|--------|------------|----|-------|
| | ≥40 | 8 ... 26.7 | ≥8 | ≤26.7 |
| | ≥20 | 8 ... 20 | ≥8 | ≤20 |

* Option (Accessory K-NA)